



NAHEP



One Week International E-Training Programme
on
Introduction to Bio-informatics
Microbial - Omics

Scheduled From 22th to 26th March, 2021



For Registration Click on following Link:
<https://forms.gle/6T1kHvkdfbqELmed8>

ICAR – National Agricultural Higher Education Project (NAHEP)

The Centre for Advanced Agricultural Science and Technology (CAAST)
for Centre of Excellence for Advanced Research on Animal Food Safety

Mumbai Veterinary college, Parel, Mumbai – 400 012

Maharashtra Animal & Fishery Sciences University, Nagpur – 440 001, Maharashtra, India

About the Project

The "NAHEP-CAAST-MAFSU" centre has been established on "Centre of Excellence for Advanced Research on Animal Food Safety" in the year 2019-20 with a total outlay of 18.05 Crores at Mumbai Veterinary College, Parel, Mumbai – 400 012.

About the University

The MAFSU plans to initiate and coordinate research projects with the other universities and institutions of ICAR. The University has signed MoU with foreign universities viz. Pennsylvania State University, USA, Washington State University, Pullman, USA and University of Adelaide, Australia etc. for collaboration of scientific and advanced training programs for the faculties and students.

ABOUT THE TRAINING

Bioinformatics is a multidisciplinary field combining biology, computer science, information engineering, mathematics and statistics for the analysis and interpretation of biological data. Biological data ranges from nucleotide and amino acid sequences to protein domains and protein structures. Bioinformatics has been widely applied in different fields like microbiology, molecular biology, diagnostics, veterinary sciences, etc.

Routine activities in bioinformatics include mapping and analysing DNA and protein sequences, aligning DNA to compare them and creating & viewing 3-D models of protein structures. This training will enrich knowledge and help the PG, Ph. D. students and faculties to determine the genetics of a particular organism, check for mutations, compare the genomes of both the organisms and interpret the differences in their genomes which further changes their phenotype.

With the advancement of bioinformatics, the study of molecular life has become easier, which can further help us to conduct a detailed atomic level study.

In this training, the participants will be acquainted with the knowledge of basics of bioinformatics, sequencing techniques and types, genomics and proteomics

TARGET AUDIENCE

Faculties, Scientists, PG and PhD students in the relevant subjects, Industry Personnel viz. Veterinarians working in slaughterhouses, meat processing plant, officers of state department of Animal Husbandry.

REGISTRATION

Registration for the training can be done by filling the google form through the following link <https://forms.gle/6T1kHvkdfbqELmed8> The link will be open for registration from 17th to 20th March, 2021, till 12.00 pm. **There will be no fees for registration.**

CERTIFICATE

E-certificate will be provided to all those participants who will register and attend all the sessions of the training program.

COMMUNICATION TO PARTICIPANTS

Those who will be selected will be informed through their registered email. A WhatsApp group will be created for selected participants and all the information related to the training will be provided in the group.

CHIEF PATRONS



Col. (Dr.) Prof. A. M. Paturkar
Vice-Chancellor, MAFSU,
Nagpur



DR. R. C Agarwal
DDG (Education) & National Director
NAHEP, ICAR, New Delhi

PATRONS



Dr. Prabhat Kumar
NC, NAHEP- CAAST
ICAR, New Delhi



Dr. A. P. Somkuwar
DI & Dean Faculty of Veterinary
Science, MAFSU, Nagpur



Dr. N.V. Kurkure
Director of Research,
MAFSU, Nagpur



Dr. V. D. Aher
Director of Extension
Education, MAFSU, Nagpur



Dr. P. G. Wasnik
Dean, Faculty of Dairy
Technology, MAFSU, Nagpur

COURSE DIRECTORS



Dr. (Prof.) A. S. Ranade
Project Implementing Officer &
Associate Dean, MVC, Mumbai



Dr. R. J. Zende
Principal Investigator
NAHEP-CAAST, MVC, Mumbai

Organising Secretaries

Dr. S. D. Ingole - Co-PI., MVC

Dr. V. M. Vaidya - Co-PI., MVC

Dr. M. P. Sawane – Nodal Officer, PME

CO- Organising Secretaries

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TRAINING SCHEDULE




Sr. No.	Date	Time	Title of the Lecture	About the Speaker	
1	22.03.2021	04.00 PM to 05.00 PM	Introduction to Bioinformatics: Importance and Application – I		Professor Department of Animal Genetics and Breeding, TANUVAS pksamy2000@gmail.com
		05.00 PM to 06.00PM	Introduction to Bioinformatics: Importance and Application – II		
2	23.03.2021	04.00 PM to 05.00 PM	Protein Sequence and Structure Analysis using Bioinformatics Tools- Part - I		Senior Scientist Institute of Life Science Bhubaneswar anshumandixit@gmail.com
		05.00 PM to 06.00PM	Protein Sequence and Structure Analysis using Bioinformatics Tools- Part - II		
3	24.03.2021	06.00 PM to 07.00 PM	Shotgun Metagenome Sequencing: Concepts and Approaches, Taxonomic & Functional Analysis		Assistant Professor Veterinary Medicine at University of Rwanda, Kigali maurbyuka@gmail.com
	25.03.2021	06.00 PM to 07.00PM	Shotgun Metagenome Sequencing: Demonstration of Bioinformatic tools		
4	24.03.2021	07.00 PM to 08.00 PM	Microbial Community Analysis: Concepts and Approaches, Clustering and Diversity Analysis		Assistant Clinical Professor Animal Diagnostic Laboratory, Pennsylvania University mms7306@psu.edu
	25.03.2021	07.00 PM to 08.00PM	Microbial Community Analysis: Demonstration of Bioinformatic tools		
5	26.03.2021	04.00 PM to 05.00 PM	Introduction to Advanced Quantitative Proteomics		Senior Scientist Institute of Life Sciences (DBT), GOI, Bhubaneshwar amolasurya@gmail.com
		05.00 PM to 06.00PM	Advance Quantitative Proteomics for understanding of Biology and Diseases		

Agenda of Inaugural Function

Date : 22/03/2021

Time	Program	Name of Dignitaries
3.30 to 3.35 PM	About the Training	Dr. R. J. Zende Principal Investigator NAHEP-CAAST, MAFSU, Mumbai
3.35 to 3.40 PM	Welcome Address	Dr. (Prof.) A. S. Ranade Project Implementing Officer & Associate Dean, MVC, Mumbai
3.40 to 3.45 PM	Address by Guest of Honour	Dr. N.V. Kurkure Director of Research, MAFSU, Nagpur
3.45 to 3.50 PM	Address by Guest of Honour	Dr. A. P. Somkuwar DI & Dean, Faculty of Veterinary Science, MAFSU, Nagpur
3.50 to 4.00 PM	Presidential Address	Col. (Dr.) Prof. A. M. Paturkar Hon`ble Vice-Chancellor, MAFSU, Nagpur
4.00 to 4.05 PM	Vote of Thanks	Dr. V. M. Vaidya Co-PI, NAHEP-CAAST MAFSU, Mumbai

Technical Evaluation Committee

	Dr. N. V. Kurkure Director of Research, MAFSU, Nagpur	Chairman
	Dr. V. S. Waskar Professor, Department of VPH, KNPCVS, Shirval Dist- Satara	Co-Chairman
	Dr. M. P. Sawane Professor, Department of Animal Genetics and Breeding, MVC, Parel, Mumbai	Rapporteur